Performance Data Sheet

HGA5513BAA

General Information

Model	HGA5513BAA	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Btu/h	7540			
	Watts (Power)				
	Amps	9.09			
	Lb/h	103			
-23.3	Btu/h	7750	8240		
	Watts (Power)				
	Amps	9.15	8.61		
	Lb/h	106	113		
-20	Btu/h	8190	8180		
	Watts (Power)				
	Amps	9.25	8.91		
	Lb/h	112	112		
-15	Btu/h	8980	8370	8720	
	Watts (Power)	256	363	482	
	Amps	9.40	9.36	10.7	
	Lb/h	123	115	120	
-10	Btu/h	9950	8950	8660	9190
	Watts (Power)	644	767	902	1070
	Amps	9.47	9.75	11.4	13.1
	Lb/h	136	123	119	126
-6.7	Btu/h	10700	9560	8970	9020
	Watts (Power)	795	931	1080	1260
	Amps	9.47	9.96	11.7	13.6
	Lb/h	147	131	123	124
-5	Btu/h	11100	9960	9240	9080
	Watts (Power)	846	989	1140	1330
	Amps	9.45	10.0	11.9	13.9
	Lb/h	152	136	127	124
0	Btu/h	12600	11400	10500	9850
	Watts (Power)	912	1080	1250	1460
	Amps	9.30	10.2	12.3	14.5
	Lb/h	172	157	144	135

5	Btu/h	14300	13400	12500	11500
	Watts (Power)	890	1080	1280	1510
	Amps	8.97	10.2	12.6	15.0
	Lb/h	196	184	171	158
7.2	Btu/h	15200	14500	13600	12600
	Watts (Power)	865	1070	1280	1530
	Amps	8.77	10.2	12.7	15.2
	Lb/h	208	198	186	172
10	Btu/h	16400	15900	15200	14200
	Watts (Power)	829	1050	1280	1540
	Amps	8.44	10.0	12.7	15.3
	Lb/h	224	218	208	195
15	Btu/h	18800	19000	18700	17900
	Watts (Power)	779	1030	1290	1580
	Amps	7.66	9.62	12.6	15.4
	Lb/h	258	261	256	245

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.603102E+04	2.109168E+02	2.521292E+01	2.196309E+02
C2	-7.811442E+01	-1.383967E+01	-3.218360E-01	-1.069340E+00
C3	-9.414114E+01	3.352454E+01	-1.226617E+00	-1.291474E+00
C4	-6.772949E+00	-1.948894E+00	-3.937526E-03	-9.279840E-02
C5	2.089755E+01	5.918397E-01	1.104902E-02	2.862428E-01
C6	-1.262073E+00	-4.662650E-01	2.893199E-02	-1.724782E-02
C7	5.086142E-02	6.560536E-02	-4.851235E-05	6.975746E-04
C8	4.214602E-01	6.537296E-03	1.717854E-05	5.773304E-03
C9	-2.584863E-01	-1.384226E-03	-6.275654E-05	-3.540631E-03
C10	1.854699E-02	4.250526E-03	-1.909122E-04	2.537759E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature